CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 21-187

STATISTICAL REVIEW(S)

Statistical Review and Evaluation Clinical Studies

NDA No:

21-187

Sponsor:

Organon Inc.

Name of Drug:

NuvaRing® (etonogestrel/ethinyl estradiol ring)

SFP

4 2000

Indication:

Prevention of Pregnancy

Medical Reviewer:

Daniel Davis, M.D.

Statistical Reviewer: Date of Submission:

Moh-Jee Ng

User Fee Date:

January 28, 2000 October 28, 2000

1. Introduction

The sponsor has presented the results of 2 clinical studies to establish the efficacy of NuvaRing® for prevention of pregnancy. NuvaRing® combines contraceptive vaginal rings containing progestagens and estrogens. NuvaRing® has a daily in vitro release rate of 0.120 mg etonogestrel (ENG) and 0.015 mg ethinyl estradiol (EE). The studies were of 13 cycles each cycle consisting of a 21-day ring period followed by a 7 day ring-free period. The studies required at least 10,000 cycles of exposure, and at least 200 women completing all 13 cycles. Table 1, below, summaries these two clinical trials.

Table 1
Summary of all Clinical Trials

Study number Start/Completed Date	# Center	Trial Design	Treatment Groups	Subjects Enrolled/Cycle of Exposures women years	# Cycles
US Studies 068003 11/97 – 6/99	48	Open-label, non-comparative, multicenter, efficacy, cycle control, safety	NuvaRing® with a declared daily release rate of 0.120 mg ENG and 0.015 mg EE vaginal		13 cycles
Non-US Studies 34219 11/97 – 6/99	53	Open-label, non-comparative, multicenter, efficacy, cycle control, safety	NuvaRing® with a declared daily release rate of 0.120 mg ENG and 0.015 mg EE vaginal		13 cycles

2. Clinical studies – 068003 and 34219

Study 068003 enrolled 1,210 subjects at 48 sites in the United States and Canada. Of these 1,210 subjects, 33 subjects did not use the trial medication. The remaining 1,177 subjects comprise the all-Subject-Treated Group. A total of 482 of the 1,177 treated subjects discontinued from the trial.

Study 34219 enrolled 1,182 subjects at 53 sites in 12 different European countries. Of these 1,182 subjects, 37 subjects did not use trial medication. The remaining 1,145 subjects comprise the all-subject-treated group. 806 subjects completed the study.

3. Sponsor's Contraceptive Efficacy Method

The primary efficacy parameter was contraceptive effectiveness; the secondary efficacy parameter was cycle control. The intent-to-treat (ITT) group consisted of subjects who received at least one ring. The Per Protocol (PP) group consisted of all subjects from the ITT group without any major protocol violation. Contraceptive effectiveness was based on the occurrence of pregnancy in the ITT and PP with a 95% confidence interval. The emphasis was on the ITT group. Pregnancy risk was estimated by the Pearl Index. The Pearl Index is defined as the number of in-treatment pregnancies times 1300 divided by the total number of cycles of exposure.

- Pre-Treatment pregnancies those in which conception occurred prior to intake of study drug: 15 in study 68003 and 10 in study 34219
- In-treatment pregnancies those in which conception occurred after the first ring was taken and prior to discontinuation of the study drug: 15 in 068003 and 6 in 34219.
- Post-treatment pregnancies those in which conception occurred after discontinuation of study drug: 12 in 068003 and 15 in 34219.

4. Results of Sponsor's and Reviewer's Contraceptive Efficacy Analysis

This reviewer's analyses are based on the ITT evaluation groups from the sponsor's data sets. This reviewer confirmed the Pearl Index obtained by the sponsor. However, the FDA medical reviewer would like to reclassify subject 4321 of study 068003 as an intreatment pregnancy instead of the post-pregnancy defined by the sponsor (see details in the medical review). This increases the number of in-treatment pregnancies from 15 to 16 for study 068003 and the Pearl Index estimate is 1.859 (95% CI: 1.067, 3.009). For the combined study (studies 68003 and 343219) the in-treatment pregnancies increase from 21 to 22 and the Pearl Index is estimated to be 1.238 (.726, 1.852).

The FDA medical reviewer also would like to count subjects 1934, 4820, and 4321 of study 068003 and 0524 of study 34219 as PP pregnancies (see details in the medical review). For study 068003 the number of in-treatment pregnancies increases from 5 to 8 and the Pearl Index is estimated to be 1.452 (95% CI: .631, 2.855). For study 34219 the number of in-treatment pregnancies increases from 3 to 4 and the Pearl Index is estimated to be .526 (95% CI: 0.138, 1.338).

The sponsor later submitted additional contraception efficacy results by age < 35 and ≥ 35 (June 9, 2000). The efficacy results from the sponsor and this reviewer are summarized in Tables 2 and 3 below.

Table 2
Efficacy Analyses
Intent-to-Treat Evaluation Groups

		068	003	34	219	Combined Studies		
Sponsor's	Total # of subjects	1,177		1,145		2,322		
Result	28-day cycles	11,188.1		12,109.4		23,297.6		
	Woman years	857.7		928.3		1,786		
	In-treatment pregnancies	15		6		21		
	Pearl index with 95% CI	1.749 (0.979	,2.885)	0.646 (0.23	0.646 (0.237,1.407)		1.176 (0.728; 1.797)	
Reviewer's	In-treatment pregnancies	8.9.		6				
Result Pearl index with 95%				0.646 (0.23	7,1.407)			
		< 35years	≥35 years	< 35years	≥35 years	< 35years	≥35 years	
Sponsor's	Total # of subjects	963	214	957	188	1920	402	
Result	28-day cycles	9024	2164.1	10029.3	2080	19053.4	4244.2	
	Woman years	694	165.9	771.5	159.5	1460.6	325.4	
	In-treatment pregnancies	13	2	5	1	18	3	
	Pearl index with 95% CI	1.873 (1.001,3.190)	1.206 (.146,4.355)	.648 (.211,1.528)	.627 (.016,3.490)	1.232 (.734,1.939)	.922 (.185,2.695)	
Reviewer's	In-treatment pregnancies		2	5	1		3	
Result	Pearl index with 95% CI	283.3 (0.62.17.5)	1.206 (.146,4.355)	.648 (.211,1.528)	.627 (.016,3.490)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.922 (.185,2.695)	

The gray cells represent this reviewer's results that differ from the sponsor's results.

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Table 3
Efficacy Analyses
Per Protocol Evaluation Groups

		068	003	342	19	Combined Studies	
Sponsor's	Total # of subjects	966		1,049		2,015	
Result	28-day cycles	7,169.4		9,879.6		17,049	
	Woman years	549.6		757.4		1,311	
	In-treatment pregnancies	5	5			8 0.617 (0.266,1.216)	
	Pearl index with 95% CI	0.906 (0.29)	5,2.123)	0.396 (0.082,1.158)			
Reviewer's	In-treatment pregnancies			The state of the s			
Resuit	Pearl index with 95% CI					308.	
		< 35years	≥35 years	< 35years	≥35 years	< 35years	≥35 years
Sponsor's	Total # of subjects	788	178	881	168	1669	346
Result	28-day cycles	5640.4	1392.1	8150.1	1729.5	13790.4	3121.6
	Woman years	432.4	106.7	624.8	132.6	1057.2	239.3
	In-treatment pregnancies	4	1	3	0	7	1
•	Pearl index with 95% CI	.925 (.252,2.369)	.937 (.024,5.221)	.479 (.099,1.403)	0	.662 (.266,1.360)	.418 (.011,2.328)
Reviewer's	In-treatment pregnancies		1		0	1	1
Result	Pearl index with 95% CI	35 000	.937 (.024,5.221)		0		418 (.011,2.328)

The gray cells represent this reviewer's results that differ from the sponsor's results.

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5. Reviewer's Comments

This reviewer's results for the Pearl Index are consistent with those of the sponsor's for both studies individually and for the combined studies. At the request of the medical reviewer, 1 posttreatment pregnancy was reclassified as an in-treatment pregnancy for the ITT evaluation group. With this additional pregnancy, the Pearl Indices increase from 1.749 to 1.859 for study 068003, and 1.176 to 1.238 for the combined studies. For age less than thirty-five years old, the Pearl Indices increase from 1.873 to 2.017 for study 068003, and 1.232 to 1.296 for the combined studies. Because the pregnancy is for a woman less than thirty-five years old, the Pearl Index for women greater than thirty-five is not affected.

The medical reviewer added 4 pregnancies to the per protocol pregnancies. Therefore, the Pearl indices increase from 0.906 to 1.452 for study 068003, 0.396 to 0.526 for study 34219, and 0.617 to 0.915 for the combined studies. For age less than thirty-five years old, the Pearl Indices increase from 0.925 to 1.613 for study 068003, 0.479 to .638 for study 34219, and .662 to 1.037 for the combined studies.

Mathematical Statistician

Concur: Lisa Kammerman, Ph.D.

Original NDA 21-187 cc. HFD-580 / Division file HFD-580 / Daniel Davis, M.D. HFD-580 / Jennifer Mercier, B.S.

HFD-715/ENevius, LKammerman, MNg

Statistical Review and Evaluation

(Carcinogenicity)

Date:

UCI 10 2000

NDA No.: 21-187

Applicant: Organon Inc.

Name of Drug: NuvaRing® (etonogestrel/ethinyl estradiol ring)

Documents Reviewed: A 24 month Oncogenicity Study of Org 3236 in the Rat via

Subcutaneous Implants, Study No.

92-2195, dated July 11, 1996.

A CDROM containing the one-year histopathology electronic data

sets.

Reviewing Pharmacologist: Krishan L. Raheja, Ph.D., HFD-580

Statistical Reviewer: Karl K. Lin, Ph.D., HFD-715

Summary of Review

The sponsor did not perform any statistical analysis on the histopathological data. The results of this review are based on the reviewer's analysis.

Results of the analysis of the mortality data of male rats show that the dose-response trend in mortality is statistically significant, and that the survival distributions of the treatment groups are statistically significant. There is no statistically significant positive trend in incidence rate detected in the tumor types tested in male rats.

The dose-response trend in mortality in data of female rats is statistically significant. The survival distributions of the treatment groups are also statistically significant. There is no statistically significant positive trend in incidence rate detected in the tumor types tested except benign brancho/alveolar adenoma in the lungs in female rats.

I. Introduction

The carcinogenicity study was conducted only on rats. The purpose of the study was to evaluate the carcinogenic potential of the drug administered by subcutaneous implants to the animals for two years. The electronic data sets submitted by the sponsor are used in the reviewer's analysis.

Dr. Raheja of HFD-580 requested the Division of Biometrics 2 to conduct a statistical review of this study.

II. Study Design

152 male and 201 female Sprague-Dawley rats were used in this carcinogenicity experiment. The treatment groups and numbers of animals in the groups in the experiment are presented as follows:

Group	Test Substance	Dose Level	Number	of Animals
-		(µg/day Org 3236)	Male	Female
I	Implant EVA covered with a silastic layer	0	52	51
II	Implant EVA covered with a silastic layer and adhered with Ethyl Loctite	0	0	50
III	Implant releasing Org 3236	10	50	50
IV	Implant releasing Org 3236	20	50	50

III. Reviewer's Analysis, Results

The survival data were analyzed using the generalized Kruskal-Wallis method of Gehan and Breslow and Wilcoxon, and the method of Cox to test trend and homogeneity in survival. The Kruskal-Wallis method places greater weight on early deaths than does the Cox method that assigns equal weights to all death.

The prevalence method, the death-rate method, and the onset-rate method were used to test the significance of positive trend in incidence of tumor types observed under the incidental, fatal, and mortality-independent contexts, respectively. The above methods adjust for differences in mortality among different treatment groups. Since only one species was used in this study, the positive trend in incidence rate is tested at 0.05 for rare tumor types, and 0.01 for common tumor types. A tumor type is classified as rare if its spontaneous rate is 1% or less, and as common, otherwise. When the above decision rule is followed in the tumor data analysis, the overall false positive rate is about 10%.

III.1 Male Rats

The mortality data of male rats presented in Tables 1 and 2, and Figures 1 and 2. Results of the analysis of the mortality data of male rats show that the dose-response trend in mortality is statistically significant, and that the survival distributions of the treatment groups are statistically significant in both the Cox test and the Kruskal-Wallis test. The p-values for the Cox test are p=0.0164 for the trend test and 0.0237 for the homogeneity test. The p-values for the Kruskal-

Wallis test are p=0.0055 for the trend test and 0.0108 for the homogeneity test. The results of the analysis of mortality data of male rats are presented in Table 3.

There is no statistically significant positive trend in incidence rate detected in the tumor types tested in male rats. The results of the tests for positive trend in tumor incidence are presented in Table 4.

III.2 Female Rats

The mortality data of female rats presented in Tables 5 and 6, and Figures 3 and 4. The dose-response trend in mortality in female rats data is also statistically significant in either the Cox test (p=0.0296) or the Kruskal-Wallis test (p=0.0086). The test of homogeneity of survival distributions of the treatment groups is not statistically significant in the Cox test (0.0527), but is statistically significant in the Kruskal-Wallis test (0.0248). The results of the analysis of mortality data of female rats are presented in Table 7.

There is no statistically significant positive trend in incidence rate detected in the tumor types tested except benign brancho/alveolar adenoma in the lungs in female rats (p=0.042). The tumor incidence rates are as follows:

Organ	Tumor type	Control 1	Control 2	Medium	High	p-value
Lungs	Benign broncho/alveolar	0/51	0/50	0/50	2/50	0.042
	adenoma					

The results of the tests for positive trend in tumor incidence are presented in Table 8.

15/

Karl K. Lin, Ph.D.

Expert Mathematical Statistician
(Applications in Pharmacology and Toxicology)

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Concur:

S. Edward Nevius, Ph.D. Director, Division of Biometrics II

cc: Original/NDA 21-187 File HFD-580/K Rajeja, A Jordan HFD-715/Chron HFD-715/E Nevius, K Lin

Figure 1

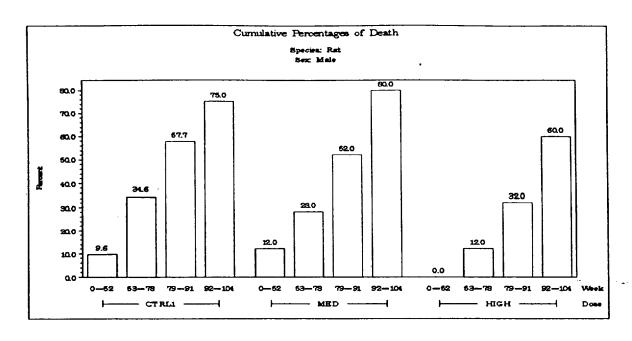


Figure 2

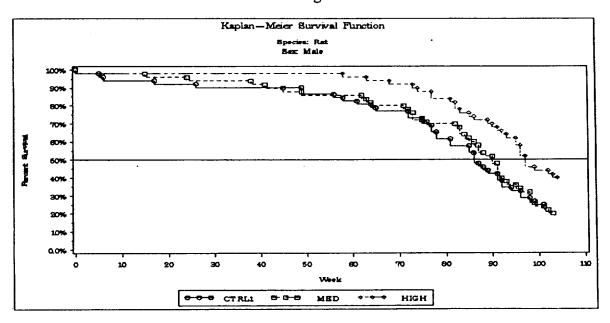


Table 1

Number of Animals Species: Rat Sex: Male

Treatment Group

	CTRL1	MED	HIGH	Total
	N	N	N	N
Week				
0-52	5	6		11
53-78	13	8	6	27
79-91	12	12	10	34
92-104	9	14	14	37
105-105	13	10	20	43
Total	52	50	50	152

Source: C:\NEVIUS\XAnimaix.txt

Table 2

Analysis of Hortality Species: Rat Sex: Hale

Dose

	CTRL1				HED			HIGH		
	of	at	Pct.	Num. of Doad	at	Pct.	of	at	Pct.	
Week										
0-52	5	52	9.6	6	50	12.0	•	•	•	
53-78	13	47	34.6	8	44	28.0	6	50	12.0	
79-91	12	34	57.7	12	36	52.0	10	44	32.0	
92-104	9	. 22	75.0	14	24	80.0	14	34	60.0	
105- 105	13	52	25.0	10	50	20.0	20	50	40.0	

Table 3

Dose-Mortality Trend Tests

This took is run using Trend and Homogeneity Analyses of Proportions and Life Table Data Version 2.1, by Donald G. Thomas, National Cancer Institute

Species: Rat Sex: Male

Method	Time-Adjusted Trend Test	Statistic	Va lus
co×	Dose-Mortality Trend	6.76	0.0164
	Depart from Trend	1.73	0.1885
	Homogeneity	7.49	0.0237
Kruekai-Waille	Dose-Mortality Trand	7.72	0.0055
	Depart from Trand	1.34	8825.0
	Homogeneity	9.06	8010.0

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Table 4

Analysis of Carcinogenic Potential in Male Rat Test of Dose-Response (Tumor) Positive Linear Trend

Study No. STUDY4412

Source:

Note:

Dose Levels Included: CTRL1 MED HIGH (0 10 20)

Missing value in Tumor-Caused Death is treated as tumor not causing death

Tumor Type: IN: Incidental (nonfatal) tumor, FA: Fatal tumor.

ORGAN/TISSUE NAME	(ORG#)	TUMOR	TIME	ROW	2xC CONTINGENCY	EXACT ASYMP ASYMP PROB
AND TUMOR NAME	(TMR#)	TYPES	STRATA	NO.	TABLES	PROB PROB /CONT CORR
						=P(STAT .GE. OBSERVED)
ADRENAL GLANDS	(AD	•	92-104		1 1 0	0.762 0.679 0.688
U/ MED: MALIGNANT NEO	(141	•	92-104		8 13 14	
			105-105		1 1 2	
Constanting toward mate 49			105-105	_	12 9 18	
Spontaneous tumor pct: 4%	In C	tr1	iotai	•	2 2 2	
ADRENAL GLANDS	(AD) IN	53-78	1	0 1 0	0.548 0.481 0.487
U/ MED: BENIGN NEO	(142	•	53-78		13 7 6	0.040 0.401 0.407
	(,	79-91		3 1 1	e de la companya de
			79-91		9 11 9	•
		IN	92-104	1	1 0 1	•
		IN	92-104	2	8 14 13	
		IN	105-105	1	1 2 4 ·	•
		IN	105-105	2	12 8 16	
Spontaneous tumor pct: 10	% in c	trl	Total	-	5 4 6	
ADRENAL GLANDS	(AD) IN	105-105	1	1 0 1	0.769 0.606 0.622
U/ CTX: CARCINOMA	(188) IN	105-105	2	12 10 19	
Spontaneous tumor pct: 2%	ind	trl	Total	-	1 0 1	
ADRENAL GLANDS	(AD	•	79-91		1 1 1	0.963 0.942 0.945
B/ MED: BENIGN NEOPLASM	(274	,	79-91	2	11 11 9	
			92-104		2 2 0	
			92-104		7 12 14	
			105-105		1 1 0	
			105-105	2	12 9 20	
Spontaneous tumor pct: 8%	1n c	etrl	Total	-	4 4 1	
ADRENAL GLANDS	(AD) TM	53-78	1	1 0 0	0.748 0.658 0.668
U/ CTX: ADENOMA	(395	•	53-78	2	12 8 6	0.748 0.038 0.008
U/ CIX. ADCINOMA	(333	•	79-91	1	1 1 1	
			79-91	2	11 11 9	
			105-105	_	0 1 0	
			105-105		13 9 20	
Cooptangous tumos pot: 49	. in .			2	2 2 1	
Spontaneous tumor pct: 4%	, THE	, (II. ·	IULAL	•	2 2 1	
ADRENAL GLANDS	(AD) TM	92-104	1	0 1 0	0.756 0.569 0.594
B/ MED: MALIGNANT NEO	(603	•	92-104		9 13 14	
Spontaneous tumor pct: <=	•	•			0 1 0	
aparitarious tumor poti					· · ·	

ORGAN/TISSUE NAME AND TUMOR NAME	(ORG#) TUMOR (TMR#) TYPES	TIME ROW STRATA NO.	2xC CONTINGENCY	EXACT ASYMP ASYMP PROB PROB PROB /CONT CORR =P(STAT .GE. OBSERVED)
STERNAL MARROW TISSUE MISSING Spontaneous tumor pct: <=	(000) IN	0-52 1 0-52 2 Total -	0 1 0 5 4 0 0 1 0	0.500 0.158 0.184
FEMORAL MARROW TISSUE MISSING Spontaneous tumor pct: <=	(000) IN	79-91 1 79-91 2 Total -	0 0 1 12 12 8 0 0 1	0.272 0.084 0.094
BRAIN MALIGNANT GLIOMA	(458) IN	105-105 1 105-105 2 86 1 86 2	0 1 0 13 9 20 1 0 0	0.908 0.851 0.861
Spontaneous tumor pct: 2%			29 31 38 1 1 0	
BRAIN HEMANGIOSARCOMA Spontaneous tumor pct: 2%	(BN) FA (463) FA in ctrl	56 2	1 0 0 46 44 50 1 0 0	1.000 0.891 0.901
BRAIN GRANULAR C-TUMOR Spontaneous tumor pct: <=	(BN) FA (589) FA 1% in ctrl	92 2	0 1 0 22 23 34 0 1 0	0.725 0.572 0.596
BONE TISSUE MISSING Spontaneous tumor pct: <=	(000) IN	79-91 1 79-91 2 Total -	0 0 1 12 12 8 0 0 1	0.272 0.084 0.094
STERNUM TISSUE MISSING Spontaneous tumor pct: <=	(BO1) IN	0-52 1 0-52 2	0 1 0 5 4 0 0 1 0	0.500 0.158 0.184
FEMUR TISSUE MISSING Spontaneous tumor pct: <=	(BO2) IN	79-91 1 79-91 2	0 0 1 12 12 8 0 0 1	0.272 0.084 0.094
CECUM TISSUE MISSING	(CE) IN	53-78 1 53-78 2 79-91 1	1 1 0 11 6 6 1 1 2	0.297 0.223 0.230
	IN In	79-91 2 79-91 1 92-104 1	10 10 6 0 1 1 9 12 12	
Spontaneous tumor pct: 49	in ctrl	Total -	2 3 3	

COLON (CO) IN 53-78 1 1 0 0 0.559 0.437 0.45 TISSUE MISSING (000) IN 53-78 2 11 8 6 IN 79-91 1 1 0 1' IN 79-91 2 10 12 8 IN 92-104 1 0 0 1	
IN 79-91 1 1 0 1' IN 79-91 2 10 12 8	; 1
IN 79-91 2 10 12 8	i 1
_ · · · · · · · · · · · · · · · · · · ·	i 1
IN 92-104 1 0 0 1	i 1
) 1
IN 92-104 2 9 14 12	31
Spontaneous tumor pct: 4% in ctrl Total - 2 0 2	31
DUODENUM (DU) IN 53-78 1 0 1 0 0.352 0.252 0.26	
TISSUE MISSING (000) IN 53-78 2 13 6 6	
IN 79-91 1 1 0 1	
IN 79-91 2 10 12 8	
IN 92-104 1 0 1 1	
IN 92-104 2 9 12 12	
Spontaneous tumor pct: 2% in ctrl Total - 1 2 2	
EPIDIDYMIDES (EP) IN 79-91 1 0 0 1 0.272 0.084 0.09	94
TISSUE MISSING (000) IN 79-91 2 12 12 8	
Spontaneous tumor pct: <= 1% in ctrl Total - 0 0 1	
ESOPHAGUS (ES) IN 79-91 1 0 0 1 0.272 0.084 0.09	3 4
TISSUE MISSING (000) IN 79-91 2 12 12 8	
Spontaneous tumor pct: <≈ 1% in ctrl Total - 0 0 1	
EXTREMITY (EX) IN 92-104 1 1 0 0 0.931 0.875 0.8	33
TISSUE MISSING (000) IN 92-104 2 7 14 14	
IN 105-105 1 0 1 0	
IN 105-105 2 13 8 20 .	
Spontaneous tumor pct: 2% in ctrl Total - 1 1 0	
EYES (EY) IN 0-52 1 0 1 0 0.244 0.145 0.1	53
TISSUE MISSING (000) IN 0-52 2 5 4 0	
IN 79-91 1 1 0 1	
IN 79-91 2 10 12 8	
IN 92-104 1 0 0 1	
IN 92-104 2 9 14 12	
Spontaneous tumor pct: 2% in ctrl Total - 1 1 2	
EYES (EY) IN 92-104 1 1 0 0 1.000 0.924 0.9	33
U/ AMELANOTIC MELANOMA (314) IN 92-104 2 8 14 13	
Spontaneous tumor pct: 2% in ctrl Total - 1 0 0	
HARDERIAN GLAND (HG) IN 105-105 1 1 0 0 1.000 0.911 0.9	20
ADENOMA (172) IN 105-105 2 12 10 20	
Spontaneous tumor pct: 2% in ctrl Total - 1 0 0	

ORGAN/TISSUE NAME AND TUMOR NAME	(ORG#) (TMR#)		TIME STRATA	ROW NO.	2xC CONTINGENCY	EXACT ASYMP ASYMP PROB PROB PROB /CONT CORR
						=P(STAT .GE. OBSERVED)
ILEUM	(IL) IN	53-78	1	1 1 0	0.114 0.073 0.076
TISSUE MISSING	(000) IN	53-78	2	11 6 6	
		IN	79-91	1	1 1 3	
		IN	79-91	2	10 10 4	
		IN	92-104	1	0 0 1	
		IN	92-104	2	9 14 12	
Spontaneous tumor pct: 4%	inc	etrl	Total	•	2 2 4	
JEJUNUM	(JE) IN	0-52	1	2 1 0	0.129 0.098 0.100
TISSUE MISSING	(000		0-52	2	1 4 0	020 0.000 000
	•	-	53-78	1	4 2 3	
			53-78	2	5 4 0	
			79-91	1	5 0 6	
			79-91	2	2 12 -2	
			92-104	_	1 2 3	
			92-104		7 10 8	
Spontaneous tumor pct: 23	e in a			2	12 5 12	_
opontaneous tamor pet. 20	• III (TOTAL	-	12 5 12	
JEJUNUM	(JE) IN	105-105	1	1 0 0	1.000 0.911 0.920
CARCINOMA	(279) IN	105-105	2	12 10 20	
Spontaneous tumor pct: 2%	in c	etrl	Total	-	1 0 0	•
KIDNEYS	(KD	\ TN	105-105	1	1 0 0	1.000 0.911 0.920
U/ MALIG MESENCHYMAL TUMO		-	105-105		12 10 20	1.000 0.311 0.320
Spontaneous tumor pct: 2%		•		-	1. 0 0	
oponitarious tamor pot. 20	211 (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TOTAL	•	1. 0 0	
KIDNEYS	(KD) IN	53-78	1	1 0 0	1.000 0.823 0.839
U/ CTX: TUB ADENOMA	(614) IN	53-78	2	12 8 6	•
Spontaneous tumor pct: 2%	in	etrl	Total	•	1 0 0	
MESENTERIC LN	(L1) IN	79-91	1.	0 1 1	0.350 0.221 0.232
TISSUE MISSING	(000		79-91	2	12 10 8	
	• • • • •	-	92-104		0 1 0	
			92-104	-	9 12 14	
Spontaneous tumor pct: <=	1% in (•	0 2 1	
MESENTERIC LN	(L1) IN	79-91	1	0 1 0	0.625 0.453 0.478
HEMANGIOSARCOMA	(682	•	79-91	2	12 10 9	0.020 0.400 0.470
Spontaneous tumor pct: <=	•	•		·	0 1 0	
MEDIASTINAL LN	(L2) TM	0-52	1	0 1 0	0.771 0.684 0.693
TISSUE MISSING	(000	•	0-52	1	0 1 0 5 4 0	0.771 0.004 0.093
IIGGUL MIGGING	(000	•		2		
			79-91	1	1 1 0	
			79-91	2	10 10 10	
			92-104	1	0 3 0	
Chartenania timas anti-			92-104		9 8 14	
Spontaneous tumor pct: 2%	i 1n (ctrl	lotal	-	1 5 0	

ORGAN/TISSUE NAME AND TUMOR NAME	•	TIME STRATA	ROW NO.	2xC CONTINGENCY	EXACT ASYMP ASYMP PROB PROB PROB /CONT CORR
	(=P(STAT .GE. OBSERVED)
MEDIASTINAL LN	(L2) IN	1 53-78	1	0 1 0	0.518 0.372 0.396
HEMANGIOSARCOMA	(684) IN	53-78	2	13 7 6	
Spontaneous tumor pct: <=	1% in ctrl	Total	•	0 1 0	
LACRIMAL GLANDS	•	53-78	1	0 1 0	0.549 0.461 0.470
TISSUE MISSING	•	53-78	2	13 6 6	
		79-91	1	1 4 0	
		79-91	2	10 4 10	
		92-104	-	0 1 1	
0		92-104		9 12 12	
Spontaneous tumor pct: 2%	in ctrl.	· iotal	•	1 6 1	
LIVER	(LI) I	1 105-105	1	1 1 0	0.913 0.864 0.873
HEPATO: CARCINOMA	(260) II	1 105-105	2	12 9 20	
Spontaneous tumor pct: 2%	in ctrl.	Total	-	1 1 0	
LIVER	(LI) I!	79-91	1	0 1 0	0.647 0.470 0.495
HEPATOCELLULAR ADENOMA	(672) I!	l 79-91	2	12 11 10	
Spontaneous tumor pct: <=	1% in ctrl.	· Total	•	0 1 0	
LYMPH/RETIC TIS	(LR) F/	A 82	1	0 0 1	0.381 0.132 0.146
HISTIOCYTIC SARCOMA	•	82	2	32 36 41	
Spontaneous tumor pct: <=	1% in ctrl.	· Total	•	0 0 1	,
LYMPH/RETIC TIS	(LR) F/	75	1	1 0 0	1.000 0.969 0.972
MYELOSARC/GRAN-LEUK	(315) F/	4 75	2	39 38 45	
	F	92	1	1 0 0	
	F	92	2	21 24 34	
Spontaneous tumor pct: 4%	in ctrl.	- Total	•	2 0 0	
LYMPH/RETIC TIS	(LR) F/	92	1	0 0 1	0.425 0.150 0.165
MALIGNANT LYMPHOMA	(497) F	4 92	2	22 24 33	
Spontaneous tumor pct: <=	1% in ctrl.	- Total	-	0 0 1	
LUNGS	(LU) II	1 79-91	1	0 1 0	0.369 0.223 0.236
BRNCH-ALVEO CARCINOMA	•	N 79-91	2	12 11 10	
		N 105-105		0 0 1	
		N 105-105	5 2	13 10 19	
Spontaneous tumor pct: <=	: 1% in ctrl.	- Total	-	0 1 1	
LUNGS	(LU) I	N 105-105	5 1	0 0 1	0.465 0.165 0.180
BRONCHO/ALVEOLAR ADENOMA	(371) I	N 105-105	5 2	13 10 19	
Spontaneous tumor pct: <=	: 1% in ctrl.	- Total	•	0 0 1	

ORGAN/TISSUE NAME AND TUMOR NAME	(ORG#) (TMR#)	TUMOR TIME TYPES STRATA	ROW NO.	2xC CONTINGENCY	PROB PROB /CONT CORR
•					=P(STAT .GE. OBSERVED)
MAMMARY	(MG) IN 0-52	1	1 1 0	0.986 0.981 0.982
TISSUE MISSING	(000) IN 0-52	2	3 4 0	
		IN 53-78	1	9 4 1	
		IN 53-78	2	-5 0 4	
•		IN 79-91	1	5 5 2	
		IN 79-91	2	2 2 6	
		IN 92-104	1	3 3 4	
		IN 92-104	2	3 8 6	
		IN 105-105		2 2 4	
		IN 105-10	5 2	9 6 12	
Spontaneous tumor	pct: 38% in	ctrl Total	-	20 15 11	
MAMMARY	· (MG) IN 92-104	1	0 1 1	0.441 0.250 0.266
FIBROADENOMA	(082) IN 92-104	2	6 10 9	
Spontaneous tumor	pct: <= 1% in	ctrl Total	-	0 1 1	
MESEN/PERITONEUM	(MS) IN 92-104	1	1 0 0	1.000 0.928 0.936
LIPOSARCOMA	(613) IN 92-104		8 14 14	(1900 01020 01000 1
Spontaneous tumor	· · ·	ctrl Total	-	1 0 0	
oponicanous como.	,			, , ,	
OPTIC NERVE	(ON) IN 79-91	1	0 1 1	0.126 0.063 0.068
TISSUE MISSING	(000) IN 79-91	2	12 10 8	
	•	IN 92-104	1	0 0 1	
		IN 92-104	2	9 14 12	
Spontaneous tumor	pct: <= 1% in	ctrl Total	•	0 1 2	,
PANCREAS	(PA) IN 53-78	1	0 1 0	0.309 0.206 0.215
·	•			13 6 6	0.309 0.200 0.213
TISSUE MISSING	(000) IN 53-78	2	1 0 1	
		IN 79-91 IN 79-91	1 2	10 12 8	
		IN 92-104		0 0 1	
		IN 92-104		9 14 12	
Spontaneous tumor	nct· 2% in	ctrl Total		1 1 2	
Sportaneous tumor	poc. 20 III	00,1. 10041		. , .	
PANCREAS	(PA) IN 79-91	1	0 1 0	0.133 0.080 0.085
ISLET C: ADENOMA	· (384) IN 79-91	2	11 11 9	
	,	IN 92-104	1	0 1 1	
		IN 92-104	1 2	9 13 12	
		IN 105-10)5 1	0 0 2	
		IN 105-10)5 2	13 10 18	
Spontaneous tumor	pct: <= 1% in	ctrl Total	•	0 2 3	
PANCREAS	(PA) IN 79-91	1	0 0 1	0.101 0.038 0.042
ACINAR C: ADENOMA	•) IN 79-91		11 12 8	- · · · · · · · · · · · · · · · · · · ·
41	, .32	IN 92-104		0 0 1	
		IN 92-104		9 14 12	
Spontaneous tumor	pct: <= 1% in			0 0 2	

Table 4 (continued)

ORGAN/TISSUE NAME AND TUMOR NAME		OR TIME ES STRATA	ROW NO.	2xC CONTINGENCY	EXACT ASYMP ASYMP PROB PROB PROB /CONT CORR
,	(,,,,		=P(STAT .GE. OBSERVED)
PITUITARY GLAND	(PG)	IN 92-104	1	0 1 0	0.750 0.570 0.594
TISSUE MISSING	(000)	IN 92-104	2	9 12 14	
Spontaneous tumor pct: <=	1% in ctrl.	- Total	•	0 1 0	•
PITUITARY GLAND	(PG)	IN 53-78	1	4 4 0	0.432 0.399 0.402
P-DIST: ADENOMA		IN 53-78	2	8 4 5	
	•	IN 79-91	1	1 2 6	
		IN 79-91	2	4 5 2	
		IN 92-104	1	3 2 5	
		IN 92-104	2	5 7 6	
		IN 105-105		5 7 14	
		IN 105-105		8 3 6	
		FA 74	1		
		FA 74			
			2	40 37 45	
		FA 78	1	1 0 0	
		FA 78	2	35 35 44	
		FA 81	1	2 0 0	•
		FA 81	2	32 35 44	·
		FA 82	1	0 1 0	•
		FA 82	2	32 34 42	÷
		FA 83	1	0 0 1	
		FA 83	2	32 34 40	
		FA 84	1	0 1 0	
		FA 84	2	32 32 39	
		FA 85	1	1 0 0	
•		FA 85	2	31 31 39	
		FA 86	1	0 1 1	
		FA 86	2	30 29 37	
		FA 87	1	1 0 0	
		FA 87	2	27 29 37	
		FA 88	1	1 2 0	•
		FA 88	2	24 26 37	
		FA 89	1	1 0 0	
		FA 89	2	23 26 37	
		FA 91	1	1 0 0	
•		FA 91	2	22 25 35	
		FA 92	1	0 1 0	
		FA 92	2	22 22 34	
		FA 96	1	0 0 1	
		FA 96	2	18 18 30	
		FA 99	1	0 2 1	
		FA 99	2	15 14 25	
		FA 101	1	1 0 0	
		FA 101	2	13 13 23	
		FA 102	1	0 1 0	
		FA 102	2	13 11 23	
		FA 103	1	0 0 1	
		FA 103	2	13 11 21	
Spontaneous tumor pct: 42	% in ctrl.	Total	-	22 24 31	
•					

ORGAN/TISSUE NAME AND TUMOR NAME	(ORG#) (TMR#)		ROW	2xC CONTINGENCY	EXACT ASYMP ASYMP PROB - PROB PROB /CONT CORR
	, ,				=P(STAT .GE. OBSERVED)
D.TTADV 01 4ND	(00) TH 405		0 1 0	0.777 0.620 0.636
PITUITARY GLAND	(PG (581) IN 105-		0 1 0 13 9 20	0.777 0.020 0.038
P-DIST: CARCINOMA	(561	FA 95	105 2	0 1 0	
		FA 95	2	18 18 32	
Spontaneous tumor	pct: <= 1% in		_	0 2 0	
·					
PARATHYROID GLS.	(PT) IN 53-7		0 1 1	0.352 0.290 0.296
TISSUE MISSING	(000) IN 53-7		13 6 4	
		IN 79-9		1 2 3	
		IN 79-9		10 8 4	
		IN 92-1 IN 92-1		0 0 1 9 14 12	
		IN 92-1 IN 105-		4 1 2	
		IN 105-		5 8 16	
Spontaneous tumor	oct: 10% in			5 4 7	
oponicancous camor	pot: 100 2		-		
PARATHYROID GLS.	(PT) IN 92-1	04 1	1 0 0	1.000 0.924 0.933
ADENOMA	(554) IN 92-1	04 2	8 14 13	•
Spontaneous tumor	pct: 2% in	ctrl Tota	1 -	1 0 0	•
	/D0	\ TH 50 7			0.550.0.427.0.450
LOW COLON/RECTUM	(RC) IN 53-7		1 0 0 11 8 6	0.559 0.437 0.450
TISSUE MISSING	(000) IN 53-7 IN 79-9		11 8 6 1 0 1	
		IN 79-9		10 12 8	
		IN 92-1		0 0 1	
		IN 92-1		9 14 12	
Spontaneous tumor	pct: 4% in			2 0 2	
	•			•	
CERVICAL SC	(SC1) IN 92-1		1 0 0	1.000 0.936 0.944
TISSUE MISSING	(000)) IN 92-1		7 14 14	
Spontaneous tumor	pct: 2% in	ctrl Tota	al -	1 0 0	
SKIN	(SK) IN 79-9	91 1	1 0 0	1.000 0.888 0.899
TISSUE MISSING	(000) IN 79-9		10 12 10	
Spontaneous tumor		ctrl Tota	al -	1 0 0	
•					
SKIN	(SK) IN 79-9	91 1	0 0 2	0.085 0.031 0.035
MYXOSARCOMA	(358) IN 79-		11 12 8	
Spontaneous tumor	pct: <= 1% in	ctrl Tota	al -	0 0 2	
01/741	16V	\ TH 105	105 1	0 0 1	0.465 0.165 0.180
SKIN	(SK) IN 105		13 10 19	0.403 0.103 0.100
PILOMATRIXOMA Spontaneous tumor	(373 not: <= 1% in) IN 105		0 0 1	
oponicaneous cumor	pct. ~- 1% In		u	U U I	
SKIN	(SK) IN 92-	104 1	1 1 0	0.746 0.622 0.636
FIBROSARCOMA	(381) IN 92-	104 2	8 13 14	
		IN 105	-105 1	0 0 1	
			-105 2	13 10 19	
Spontaneous tumor	pct: 2% in	ctrl Tot	al -	1 1 1	

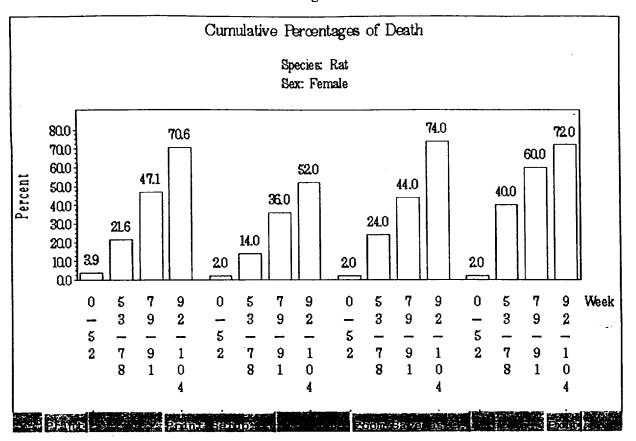
ORGAN/TISSUE NAME	(ORG#)	TUMOR	TIME	ROW	2xC CONTINGENCY	
AND TUMOR NAME	(TMR#)	TYPES	STRATA	NO.	TABLES	PROB PROB /CONT CORR = P(STAT .GE. OBSERVED)
SKIN	(SK) IN	92-104	1	1 0 2	0.343 0.237 0.246
FIBROMA	(385) IN	92-104	2	8 14 12	•
		IN	105-105	1	0 1 1	
		IN	105-105	2	13 9 19	
Spontaneous tumor pct: 2%	in ct	rl. ·	Total	•	1 1 3	
SKIN	(SK	•	79-91		1 0 0	0.899 0.832 0.843
LIPOMA	(396	•	79-91		10 12 10	
			105-105		0 1 0	
			105-105		13 9 20	
Spontaneous tumor pct: 2%	in ct	rl	Total	-	1 1 0	
SKIN	(SK	-	79-91	1	0 1 0	0.704 0.537 0.555
BASAL CELL CARCINOMA	(675	•	79-91	2	11 11 10	
			92-104		0 1 0	
			92 - 104	2		
Spontaneous tumor pct: <=	1% in ct	rl	Total	-	0 2 0	
IMPLANT ST-COMB	(SK3) IN	79-91	1	0 1 0	0.026 0.017 0.018
ZT: CAPSULE-IMPLANT SITE	(050) IN	79-91	2	12 10 10	
			92-104		0 1 0	
			92 - 104		9 12 14	-
			105-105		3 5 9	
•			105-105		7 0 2	
Spontaneous tumor pct: 6%	in ct	rl	Total	•	3 7 9	
IMPLANT ST-COMB	(SK3	•	105-105		0 1 0	0.615 0.517 0.539
FIBROMA	(744	•	105-105	2	10 4 11	•
Spontaneous tumor pct: <=	1% in ct	rl	Total	-	0 1 0	
SPLEEN	(SP	-	79-91			0.272 0.084 0.094
TISSUE MISSING	(000	•	79-91		12 12 8	
Spontaneous tumor pct: <=	1% in ct	rl	Total	•	0 0 1	
SPLEEN	(SP) IN	92-104	1	0 1 0	0.756 0.569 0.594
LEIOMYOSARCOMA	(608	•	92-104		9 13 14	
Spontaneous tumor pct: <=	1% in ct	rl	Total	•	0 1 0	
STOMACH	(ST) IN	92-104	1 .	0 0 1	0.361 0.125 0.139
TISSUE MISSING	(000) IN	92-104	2	9 14 12	
Spontaneous tumor pct: <=	: 1% in ct	rl. ·	Total	•	0 0 1	
TAIL	(TA) IN	79-91	1	1 0 0	0.400 0.260 0.272
TISSUE MISSING	(000)) IN	79-91	2	10 12 10	
		IN	92-104	1	0 0 2	
			92-104	2	9 14 10	
Spontaneous tumor pct: 29	s in ct	rl	Total	•	1 0 2	

ORGAN/TISSUE NAME AND TUMOR NAME	(ORG#) TUN (TMR#) TYP		TIME STRATA	ROW NO.	2xC CONTINGENCY	EXACT ASYMP ASYMP PROB PROB PROB /CONT CORR =P(STAT .GE. OBSERVED)
TESTES TISSUE MISSING	•		79-91 79-91	1 2	0 0 1 12 12 8	0.272 0.084 0.094
Spontaneous tumor pct: <=				-	0 0 1	
TESTES	(TE)	IN	79-91	1	1 0 0	0.960 0.926 0.930
U/ INTERSTIT C-TUMOR	(138)	IN	79-91	2	11 12 9	
			92-104		0 0 1	
			92-104		9 14 13	
			105-105		2 0 0	
D	i+-1		105-105		11 10 20 3 0 1	
Spontaneous tumor pct: 6%	in ctri	• •	IOTAL	-	3 0 1	
THYROID GLAND	(TH)	TN	79-91	1	0 0 1	0.272 0.084 0.094
TISSUE MISSING	•		79-91	2		
Spontaneous tumor pct: <=	•			-	0 0 1	
•						
THYROID GLAND	(TH)	IN	79-91	1	2 0 1	0.382 0.325 0.330
C-CELL ADENOMA	(102)	IN	79-91	2	10 12 8	· · · · · · · · · · · · · · · · · · ·
		IN	92-104	1	0 3 4	
		IN	92-104	2	9 11 10	
			105-105		4 2 5	
			105-105		9 8 15	
Spontaneous tumor pct: 12	% in ctri		lotal	-	6 5 10	
THYROID GLAND	(TH)	IN	105-105	1	1 0 0	1.000 0.911 0.920
C-CELL CARCINOMA			105-105		12 10 20	
Spontaneous tumor pct: 29				-	1 0 0	
THYROID GLAND	•		53-78		1 1 0	0.749 0.666 0.675
FOLLIC: ADENOMA	(265)		53-78		12 7 6	
			79-91		0 1 0	
			79-91 92-104		12 11 9 0 1 0	
			92-104	-	0 1 0 9 13 14	
			105-104		1 0 1	
			105-105		12 10 19	
Spontaneous tumor pct: 45	k in ctrl				2 3 1	
openicanicodo como: poor						
THYROID GLAND	(TH)	IN	53-78	1	1 0 0	0.809 0.721 0.731
FOLLIC C: CARCINOMA	(300)	IN	53-78	2	12 8 6	
			l 79-91		1 0 0 -	
			79-91		11 12 9	
			92-104		0 1 0	
			92-104	2	9 13 14	
			1 105-10		0 0 1	
			1 105-10	5 2	13 10 19	
Spontaneous tumor pct: 4	% in ctrl	۱	Total	-	2 1 1	

ORGAN/TISSUE NAME AND TUMOR NAME	(ORG#) (TMR#)	TUMOR TIME TYPES STRATA	ROW NO.	2xC CONTINGENCY	EXACT ASYMP ASYMP PROB PROB PROB /CONT CORR =P(STAT .GE. OBSERVED)
THYMUS	(TM) IN 0-52	1	0 2 0	0.042 0.032 0.033
TISSUE MISSING	(000)) IN 0-52	2	5 2 0	
		IN 53-78	1	2 3 2	
		IN 53-78	2	9 2 2	
		IN 79-91	1	3 3 3	
		IN 79-91	2	6 6 4	
		IN 92-104	1	2 5 6	
		IN 92-104	2	5 4 2	
		IN 105-10	5 1	6 0 8	
		IN 105-10	5 2	1 10 4	
Spontaneous tumor pct: 25	% in c	trl Total	-	13 13 19	
TONGUE	(TO) IN 105-10	5 1	0 0 1	0.452 0.159 0.174
TISSUE MISSING	(000) IN 105-10		13 10 18	
Spontaneous tumor pct: <=	* ' '		•	0 0 1	
URINARY BLADDER	(UB) IN 79-91	1	0 0 1	0.272 0.084 0.094
TISSUE MISSING	(000) IN 79-91	2	12 12 8	
Spontaneous tumor pct: <=	•	•	-	0 0 1	•
URETER	(UR) IN 53-78	1	1 0 0	1.000 0.832 0.847
TISSUE MISSING	(000) IN 53-78	2	11 8 6	
Spontaneous tumor pct: 29	•	etrl Total	-	1 0 0	

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Figure 3



removed because it contains trade secret and/or confidential information that is not disclosable.

Table 5

Number of Animals Species: Rat Sex: Female

Treatment Group

	CTRL 1	CTRL2	MED	HIGH	Total
	N	N	N	N	N
Week					
0-52	2	1	1	1	5
53-78	9	6	11	19	45
79-91	13	11	10	10	44
92-104	12	8	15	6	41
105-105	15	24	13	14	66
Total	51	50	50	50	201

Table 6

Analysis of Mortality Species: Rat Sex: Female

Dose

	(CTRL1		(CTRL2			MED			HIGH	
	of	at	Pct.	of	at	Pct.	of	at	Pct.	of	Num. at Risk	Pct.
₩eek												
0-52	2	51	3.9	1	50	2.0	1	50	2.0	1	50	2.0
53-78	9	49	21.6	6	49	14.0	11	49	24.0	19	49	40.0
79-91	13	40	47.1	11	43	36.0	10	38	44.0	10	30	60.0
92-104	12	27	70.6	8	32	52.0	15	28	74.0	6	20	72.0
105- 105	15	51	29.4	24	50	48.0	13	50	26.0	14	50	28.0

Table 7

Dose-Mortality Trend Tests

This test is run using Trend and Homogeneity Analyses of Proportions and Life Table Data Version 2.1, by Donald G. Thomas, National Cancer Institute

> Species: Rat Sex: Female

Method	Time-Adjusted Trend Test	Statistic	P Value
Cox .	Dose-Mortality Trend	4.73	0.0296
	Depart from Trend	2.97	0.2268
	Homogeneity	7.70	0.0527
Kruskal-Wallis	Dose-Mortality Trend	6.91	0.0086
	Depart from Trend	2.45	0.2932
	Homogeneity	9.36	0.0248

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APPEARS THIS WAY ON ORIGINAL

Table 8

Analysis of Carcinogenic Potential in Female Rat Test of Dose-Response (Tumor) Positive Linear Trend

Source: Study No. STUDY4412

Note:

Dose Levels Included: CTRL1 CTRL2 MED HIGH (0 0 10 20)

Missing value in Tumor-Caused Death is treated as tumor not causing death

Tumor Type: IN: Incidental (nonfatal) tumor, FA: Fatal tumor.

ORGAN/TISSUE NAME	(ORG#) TUMOR		ROW 2xC CONTINGENCY	EXACT ASYMP ASYMP PROB
AND TUMOR NAME	(TMR#) TYPES	STRATA N	NOTABLES	PROB PROB /CONT CORR =P(STAT .GE. OBSERVED)
ADRENAL GLANDS	(AD) IN	53-78 1	1 0 0 0 1	0.409 0.140 0.153
TISSUE MISSING	(000) IN	53-78 2	2 9 6 11 17	
Spontaneous tumor pct: <=	1% in ctrl	Total -	- 0 0 0 1	
ADRENAL GLANDS	(AD) IN	105-105 1	1 1 0 0 1	0.418 0.253 0.267
U/ MED: MALIGNANT NEO	(141) IN	105-105 2	2 14 24 13 13	
Spontaneous tumor pct: <=	1% in ctrl	Total -	- 1 0 0 1	
ADRENAL GLANDS	(AD) IN		1 1 0 0 1	0.957 0.919 0.922
U/ MED: BENIGN NEO	(142) IN	53-78	2 8 6 11 17	
	· ·		1 0 2 0 0	
	-		2 13 9 10 10	
•	I	92-104		
	I	92-104		
	I	105-105	1 0 1 0 0	
•		1 105-105		
Spontaneous tumor pct: 5%	in ctrl.	Total	- 1 4 0 1	
ADRENAL GLANDS	(AD) II	105-105	1 0 1 0 1	0.418 0.253 0.267
U/ CTX: CARCINOMA	(188) II	105-105	2 15 23 13 13	
Spontaneous tumor pct: <=	: 1% in ctrl.	Total	- 0 1 0 1	
ADRENAL GLANDS	(AD) I	105-105	1 1 0 0 0	1.000 0.777 0.795
B/ MED: BENIGN NEOPLASM	(274) II	105-105	2 14 24 13 14	
Spontaneous tumor pct: <=	1% in ctrl.	Total	- 1 0 0 0	
ADRENAL GLANDS	(AD) II	92-104	1 0 1 0 2	0.110 0.047 0.052
U/ CTX: ADENOMA	(395) II	92-104	2 12 7 15 4	
Spontaneous tumor pct: <=	1% in ctrl.	· Total	- 0 1 0 2	
ADIPOSE TISSUE	(AT) I	92-104	1 1 0 0 0	1.000 0.825 0.842
TISSUE MISSING	(000) I	N 92-104	2 10 8 15 6	
Spontaneous tumor pct: <=	= 1% in ctrl.	- Total	- 1 0 0 0	
FEMORAL MARROW	(BM2) I	N 79-91	1 0 0 1 0	0.441 0.347 0.369
TISSUE MISSING	(000) I	N 79-91	2 13 11 8 10	
Spontaneous tumor pct: <=	= 1% in ctrl.	- Total	- 0 0 1 0	
BRAIN	(BN) F	A 104	1 0 1 0 0	1.000 0.772 0.790
GRANULAR C-TUMOR	•		2 15 25 13 14	
Spontaneous tumor pct: <=	• •		- 0 1 0 0	
abautamana tamai batt				

## AND TUMOR NAME Comparison Count Corner	ORGAN/TISSUE NAME	(ORG#) TUMOR	TIME ROW	2xC CONTINGENCY	EXACT ASYMP ASYMP PROB
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IN 92-104 2 10 8 13 4 Spontaneous tumor pct: 9% in ctrl Total - 6 3 3 6 JEJUNUM (JE) IN 0-52 1 1 0 0 0 0 0.632 0.581 0.586 TISSUE MISSING (000) IN 0-52 2 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		IN	79-91 2	3 7 6 4	
Spontaneous tumor pct: 9% in ctrl Total - 6 3 3 6 JEJUNUM (JE) IN 0-52 1 1 0 0 0 0.632 0.581 0.586 TISSUE MISSING (000) IN 0-52 2 0 1 1 1 IN 53-78 1 3 3 3 7 IN 53-78 2 3 0 5 5 IN 79-91 1 7 3 4 4 IN 79-91 2 -1 5 2 2 IN 92-104 1 2 4 5 2 IN 92-104 2 8 0 5 2 Spontaneous tumor pct: 23% in ctrl Total - 13 10 12 13 KIDNEYS (KD) IN 105-105 1 0 0 0 1 0.212 0.044 0.050 U/ LIPOMATOUS NEOPLASM (626) IN 105-105 2 15 24 13 13		· IN	92-104 1	1 0 1 1	·
JEJUNUM (JE) IN 0-52 1 1 0 0 0 0.632 0.581 0.586 TISSUE MISSING (000) IN 0-52 2 0 1 1 1 1 IN 53-78 1 3 3 3 7 IN 53-78 2 3 0 5 5 IN 79-91 1 7 3 4 4 IN 79-91 2 -1 5 2 2 IN 92-104 1 2 4 5 2 IN 92-104 2 8 0 5 2 Spontaneous tumor pct: 23% in ctrl Total - 13 10 12 13 KIDNEYS (KD) IN 105-105 1 0 0 0 1 0.212 0.044 0.050 U/ LIPOMATOUS NEOPLASM (626) IN 105-105 2 15 24 13 13			92-104 2	10 8 13 4	
TISSUE MISSING (000) IN 0-52 2 0 1 1 1 1 IN 53-78 1 3 3 3 7 IN 53-78 2 3 0 5 5 IN 79-91 1 7 3 4 4 IN 79-91 2 -1 5 2 2 IN 92-104 1 2 4 5 2 IN 92-104 1 2 4 5 2 IN 92-104 2 8 0 5 2 Spontaneous tumor pct: 23% in ctrl Total - 13 10 12 13 KIDNEYS (KD) IN 105-105 1 0 0 0 1 0.212 0.044 0.050 U/ LIPOMATOUS NEOPLASM (626) IN 105-105 2 15 24 13 13	Spontaneous tumor pct: 9%	in ctrl	Total -	6 3 3 6	
TISSUE MISSING (000) IN 0-52 2 0 1 1 1 1 IN 53-78 1 3 3 3 7 IN 53-78 2 3 0 5 5 IN 79-91 1 7 3 4 4 IN 79-91 2 -1 5 2 2 IN 92-104 1 2 4 5 2 IN 92-104 1 2 4 5 2 IN 92-104 2 8 0 5 2 Spontaneous tumor pct: 23% in ctrl Total - 13 10 12 13 KIDNEYS (KD) IN 105-105 1 0 0 0 1 0.212 0.044 0.050 U/ LIPOMATOUS NEOPLASM (626) IN 105-105 2 15 24 13 13					
IN 53-78 1 3 3 3 7 IN 53-78 2 3 0 5 5 IN 79-91 1 7 3 4 4 IN 79-91 2 -1 5 2 2 IN 92-104 1 2 4 5 2 IN 92-104 2 8 0 5 2 Spontaneous tumor pct: 23% in ctrl Total - 13 10 12 13 KIDNEYS (KD) IN 105-105 1 0 0 0 1 0.212 0.044 0.050 U/ LIPOMATOUS NEOPLASM (626) IN 105-105 2 15 24 13 13		•			0.632 0.581 0.586
IN 53-78 2 3 0 5 5 IN 79-91 1 7 3 4 4 IN 79-91 2 -1 5 2 2 IN 92-104 1 2 4 5 2 IN 92-104 2 8 0 5 2 Spontaneous tumor pct: 23% in ctrl Total - 13 10 12 13 KIDNEYS (KD) IN 105-105 1 0 0 0 1 0.212 0.044 0.050 U/ LIPOMATOUS NEOPLASM (626) IN 105-105 2 15 24 13 13	TISSUE MISSING	•			
IN 79-91 1 7 3 4 4 IN 79-91 2 -1 5 2 2 IN 92-104 1 2 4 5 2 IN 92-104 2 8 0 5 2 Spontaneous tumor pct: 23% in ctrl Total - 13 10 12 13 KIDNEYS (KD) IN 105-105 1 0 0 0 1 0.212 0.044 0.050 U/ LIPOMATOUS NEOPLASM (626) IN 105-105 2 15 24 13 13					
IN 79-91 2 -1 5 2 2 IN 92-104 1 2 4 5 2 IN 92-104 2 8 0 5 2 Spontaneous tumor pct: 23% in ctrl Total - 13 10 12 13 KIDNEYS (KD) IN 105-105 1 0 0 0 1 0.212 0.044 0.050 U/ LIPOMATOUS NEOPLASM (626) IN 105-105 2 15 24 13 13					
IN 92-104 1 2 4 5 2 IN 92-104 2 8 0 5 2 Spontaneous tumor pct: 23% in ctrl Total - 13 10 12 13 KIDNEYS (KD) IN 105-105 1 0 0 0 1 0.212 0.044 0.050 U/ LIPOMATOUS NEOPLASM (626) IN 105-105 2 15 24 13 13					
IN 92-104 2 8 0 5 2 Spontaneous tumor pct: 23% in ctrl Total - 13 10 12 13 KIDNEYS (KD) IN 105-105 1 0 0 0 1 0.212 0.044 0.050 U/ LIPOMATOUS NEOPLASM (626) IN 105-105 2 15 24 13 13	•				
Spontaneous tumor pct: 23% in ctrl Total - 13 10 12 13 KIDNEYS (KD) IN 105-105 1 0 0 0 1 0.212 0.044 0.050 U/ LIPOMATOUS NEOPLASM (626) IN 105-105 2 15 24 13 13					
KIDNEYS (KD) IN 105-105 1 0 0 0 1 0.212 0.044 0.050 U/ LIPOMATOUS NEOPLASM (626) IN 105-105 2 15 24 13 13	Spontaneous tumor not: 23				
U/ LIPOMATOUS NEOPLASM (626) IN 105-105 2 15 24 13 13	apartaria da camor potr Eu	211 0(121 -		.5 15 12 10	
U/ LIPOMATOUS NEOPLASM (626) IN 105-105 2 15 24 13 13	KIDNEYS	(KD) IN	105-105 1	0 0 0 1	0.212 0.044 0.050
· · · · · · · · · · · · · · · · · · ·		•			
	Spontaneous tumor pct: <=	•	Total -	0 0 0 1	

ORGAN/TISSUE NAME AND TUMOR NAME	(ORG#) TUMOR (TMR#) TYPES	TIME ROW STRATA NO.	2xC CONTINGENCY	EXACT ASYMP ASYMP PROB PROB PROB /CONT CORR =P(STAT .GE. OBSERVED)
MESENTERIC LN TISSUE MISSING	(000) IN IN IN IN	53-78 1 53-78 2 79-91 1 79-91 2 92-104 1 92-104 2	0 0 0 1 9 6 11 17 1 1 1 0 11 9 8 10 1 1 0 0	0.856 0.792 0.799
Spontaneous tumor pct: 49			10 6 15 6 2 2 1 1	
MESENTERIC LN HEMANGIOSARCOMA Spontaneous tumor pct: <=	(682) IN	105-105 1 105-105 2 Total -	0 1 0 0 15 23 13 14 0 1 0 0	1.000 0.777 0.795
MEDIASTINAL LN TISSUE MISSING	(000) IN	0-52 1 0-52 2 53-78 1 53-78 2	0 0 1 0 2 1 -1 1 0 1 0 1 9 4 11 17	0.436 0.374 0.381
	IN In	79-91 1 79-91 2 92-104 1	0 0 3 2 13 11 4 6 3 2 0 0	* •
Spontaneous tumor pct: 69	IN In	92-104 2 105-105 1 105-105 2 Total -	6 4 15 6 0 0 1 0 15 24 11 14 3 3 5 3	•
SUBMANDIB/MAX LN TISSUE MISSING	(000) IN	53-78 1 53-78 2 92-104 1 92-104 2	0 1 0 0 9 4 11 19 0 0 1 1 12 8 13 4	0.446 0.307 0.321
Spontaneous tumor pct: <=			0 1 1 1	
LACRIMAL GLANDS TISSUE MISSING	(000) IN IN IN	53-78 1 53-78 2 79-91 1 79-91 2 92-104 1	1 1 0 1 7 4 11 17 1 2 2 1 11 7 6 8 1 0 0 0	0.855 0.805 0.810
Spontaneous tumor pct: 69		92-104 2 Total -	10 8 15 6 3 3 2 2	
LIVER HEPATO: CARCINOMA Spontaneous tumor pct: <=	(260) IN	105-105 1 105-105 2 Total -	0 1 0 0 15 23 13 14 0 1 0 0	1.000 0.777 0.795
LIVER HEPATOCELLULAR ADENOMA Spontaneous tumor pct: <=	(672) IN	105-105 1 105-105 2 Total -	0 1 0 0 15 23 13 14 0 1 0 0	1.000 0.777 0.795

ORGAN/TISSUE NAME	(ORG#) TUMOR		2xC CONTINGENCY	EXACT ASYMP ASYMP PROB
AND TUMOR NAME	(TMR#) TYPES	STRATA NO.	TABLES	PROB PROB /CONT CORR =P(STAT .GE. OBSERVED)
LYMPH/RETIC TIS	(LR) IN	53-78 1	0 1 0 0	0.895 0.834 0.842
HISTIOCYTIC SARCOMA	(221) IN	53-78 2	9 5 11 19	
	FA	100 1	0 1 0 0	
	FA	100 2	23 26 20 18	
	FA	101 1	0 0 1 0	
		101 2	20 26 18 18	
Spontaneous tumor pct: 2%	in ctrl	Total -	0 2 1 0	
LYMPH/RETIC TIS	•	53-78 1	1 0 0 0	0.816 0.733 0.747
MYELOSARC/GRAN-LEUK	•	53-78 2	8 6 11 19	
		92 1	0 0 1 0	
		92 2	27 32 27 20	
Spontaneous tumor pct: <=	1% in ctrl	Total -	1 0 1 0	
LYMPH/RETIC TIS	•	92-104 1	1 0 0 0	1.000 0.820 0.837
THYMIC LYMPHOMA	,	92-104 2	11 8 15 6	
Spontaneous tumor pct: <=	1% in ctrl	Total -	1 0 0 0	
LYMPH/RETIC TIS	•	105-105 1	0 1 0 0	1.000 0.777 0.795
MONONUCLEAR C-LEUKEMIA	•	105-105 2	15 23 13 14	
Spontaneous tumor pct: <=	1% in ctrl	Total -	0 1 0 0	
LUNGS	•	53-78 1	0 0 1 0	0.666 0.540 0.563
BRNCH-ALVEO CARCINOMA	•	53-78 2	9 6 10 19	
Spontaneous tumor pct: <=	1% in ctrl	Total -	0 0 1 0	
LUNGS	(LU) IN	105-105 1	0 0 0 2	0.042 0.007 0.008
BRONCHO/ALVEOLAR ADENOMA	•	105-105 2	15 24 13 12	
Spontaneous tumor pct: <=	1% in ctrl	Total -	0 0 0 2	(Exact P<0.050)
MAMMARY	(MG ·) IN	53-78 1	0 0 0 1	0.586 0.399 0.416
TISSUE MISSING	•	53-78 2	9 6 11 17	
		105-105 1	1 0 0 0	
	_	105-105 2	13 24 13 14	
Spontaneous tumor pct: <=	1% in ctrl	Total -	1 0 0 1	
MAMMARY .	•	53-78 1	2 2 3 5	0.447 0.412 0.415
CARCINOMA	•	53-78 2	7 4 8 13	
		79-91 1	5 2 1 3	
		79-91 2	7 9 9 7	
		92-104 1	4 1 5 0	
		92-104 2	8 7 10 6	
		105-105 1	3 9 5 7	
		105-105 2	11 15 8 7	
		88 1	1 0 0 0	
Spontaneous tumos sot: 000		88 2	30 37 29 23	
Spontaneous tumor pct: 29	t in ctrl	iotai .	15 14 14 15	

ORGAN/TISSUE NAME AND TUMOR NAME	(ORG#) (TMR#)	TUMOR TIME TYPES STRA		2xC CONTINGENCY	EXACT ASYMP ASYMP PROB - PROB PROB /CONT CORR =P(STAT .GE. OBSERVED)
MAMMARY FIBROADENOMA	(MG (082) IN 0-52) IN 0-52 IN 53-7 IN 53-7 IN 79-9 IN 79-9 IN 92-1 IN 92-1 IN 105- IN 105-	2 8 1 8 2 1 1 1 2 04 1 04 2 105 1	1 0 0 0 1 1 1 1 1 2 2 9 8 4 9 9 6 4 6 6 7 7 4 4 6 5 11 5 6 3 4 1 8 19 6 9 6 5 7 5	0.081 0.069 0.070
Spontaneous tumor pct: MAMMARY CARCINO-SARCOMA	51% in 6 (MG (473	otrl Tota) FA 85) FA 85 FA 102	1 - 1 2 1	22 30 25 29 1 0 0 0 34 39 34 25 1 0 0 0	1.000 0.869 0.878
Spontaneous tumor pct:	(MG	FA 102 ctrl Tota) IN 53-7	8 1	17 26 16 16 2 0 0 0 0 1 1 0	0.889 0.818 0.826
ADENOMA	(483) IN 53-7 IN 79-9 IN 79-9 IN 92-1 IN 92-1	1 1 1 2 04 1	9 5 10 18 0 0 1 0 13 11 9 10 1 0 0 0 11 8 15 6	•
MAMMARY MALIGNANT MIXED TUMOR Spontaneous tumor pct:	(MG (638	otrl Tota) IN 105-) IN 105- otrl Tota	105 1 105 2	1 1 2 0 0 0 1 0 14 24 12 14 0 0 1 0	0.415 0.325 0.347
OPTIC NERVE TISSUE MISSING	(ON (OOO) IN 53-7) IN 53-7 IN 92-1 IN 92-1	78 2 104 1	0 1 0 0 9 4 11 19 4 0 0 1 4 8 15 4	0.970 0.935 0.938
Spontaneous tumor pct: OVARIES TISSUE MISSING Spontaneous tumor pct:	(OV (000) IN 53-7) IN 53-7) IN 53-7	78 1 78 2	4 1 0 1 1 0 0 0 7 6 11 19 1 0 0 0	1.000 0.902 0.912
OVARIES SERTOLIFORM CELL TUMOR Spontaneous tumor pct:	(0V (430) IN 105-	·105 1 ·105 2	1 0 0 1 14 24 13 13 1 0 0 1	0.418 0.253 0.267
OVARIES U/ LEUTEOMA Spontaneous tumor pct:	(0V (653 <= 1% in) IN 105) IN 105 ctrl Tota	105 2	0 1 0 0 15 23 13 14 0 1 0 0	1.000 0.777 0.795

ORGAN/TISSUE NAME AND TUMOR NAME	(ORG#) TUMOR TIME (TMR#) TYPES STRATA	ROW 2xC CONTINGENCY NOTABLES	EXACT ASYMP ASYMP PROB PROB PROB /CONT CORR =P(STAT .GE. OBSERVED)
OVARIES U/ FIBROSARCOMA Spontaneous tumor pct: <=	(OV) IN 92-104 (670) IN 92-104 1% in ctrl Total	1 0 1 0 0 2 12 7 15 6 - 0 1 0 0	1.000 0.820 0.837
PANCREAS TISSUE MISSING	(PA) IN 53-78 (000) IN 53-78 IN 79-91 IN 79-91 IN 92-104	1 0 0 0 1 2 9 6 11 17 1 1 0 0 0 2 11 11 10 10 1 0 1 0 0	0.743 0.624 0.637
Spontaneous tumor pct: 2%	IN 92-104 in ctrl Total	2 12 6 15 6	
PANCREAS ISLET C: ADENOMA Spontaneous tumor pct: 49	(PA) IN 79-91 (384) IN 79-91 IN 105-105 IN 105-105 in ctrl Total		1.000 0.944 0.947
PANCREAS ACINAR C: ADENOMA Spontaneous tumor pct: <=	(PA) IN 105-105 (432) IN 105-105 = 1% in ctrl Total		1.000 0.777 0.795
PANCREAS ACINAR C: CARCINOMA Spontaneous tumor pct: <=	(PA) FA 100 (486) FA 100 = 1% in ctrl Total	1 1 0 0 0 2 22 27 20 18 - 1 0 0 0	1.000 0.786 0.804
PANCREAS ISLET CELL CARCINOMA Spontaneous tumor pct: <=	(PA) IN 92-104 (741) IN 92-104 = 1% in ctrl Total	1 1 0 0 0 2 11 7 15 6 - 1 0 0 0	1.000 0.825 0.842
PREPUT/CLIT GL ADENOMA Spontaneous tumor pct: <=	(PC) IN 79-91 (665) IN 79-91 = 1% in ctrl Total	1 0 1 0 0 2 13 10 10 10 - 0 1 0 0	1.000 0.797 0.814
PITUITARY GLAND TISSUE MISSING	(PG) IN 53-78 (000) IN 53-78 IN 79-91 IN 79-91 IN 92-104		0.899 0.831 0.839
Spontaneous tumor pct: 3	IN 92-104 ar in ctrl Total	2 12 6 15 6 - 1 2 0 1	

Table 8 (continued)

ORGAN/TISSUE NAME AND TUMOR NAME	(ORG#) (TMR#)	TUMOR TIME TYPES STRATA	ROW NO.	2xC CONTINGENCY	EXACT ASYMP ASYMP PROB PROB PROB /CONT CORR
	,				=P(STAT .GE. OBSERVED)
PITUITARY GLAND P-DIST: ADENOMA	(PG (083) IN 53-78) IN 53-78	1 2	0 0 2 6 2 0 2 5	0.091 0.080 0.081
· DIST. ADENOMA	(000)	IN 79-91	1	4 1 3 3	
		IN 79-91	2	1 1 2 1	•
		IN 92-104	1	1 0 6 2	
		IN 92-104 IN 105-105	2	2 5 3 0 11 17 10 12	
		IN 105-105		4 7 3 2	
		FA 46	1	0 0 1 0	
		FA 46	2	49 48 49 48	
		FA 47	1	0 1 0 0	
		FA 47	2	48 47 49 48	
		FA 58	1	0 0 1 0	
		FA 58 FA 62	2	48 47 48 48 0 0 1 0	
		FA 62	2	47 47 46 47	
		FA 66	1	0 0 1 1	
		FA 66	2	47 47 44 45	7
		FA 67	1	1 0 0 2	•
		FA 67	2	45 47 44 43	•
		FA 69 FA 69	1 2	1 0 0 1 44 47 43 39	•
		FA 72	1	0 1 1 0	
		FA 72	2	44 46 42 39	
		FA 73	1	2 0 0 1	
,		FA 73	2	42 46 42 38	
		FA 74	1	0 0 0 1	
		FA 74	2	42 46 42 36	
		FA 75	1	0 1 2 1	
		FA 75 FA 76	2 1	42 45 40 34 2 0 0 0	
		FA 76	2	40 45 40 34	
		FA 77	1	1 2 1 0	
		FA 77	2	39 43 39 33	
	÷	FA 78	1	0 1 0 0	
		FA 78	2	39 42 39 30	
•		FA 80	1	0 0 1 0	
		FA 80 FA 81	2	39 41 37 30 1 0 1 2	
		FA 81	2	38 41 35 28	
		FA 83	1	1 1 0 2	
		FA 83	2	37 40 35 25	
		FA 84	1	1 2 0 0	·
		FA 84	2	36 38 35 25	
		FA 85	1	0 0 0 1	
		FA 85 FA 86	2 1	35 38 34 24 2 2 2 0	
		FA 86	2	32 36 32 24	
		FA 87	1	1 0 1 0	
		FA 87	2	31 36 29 23	
		FA 88	1	0 2 0 0	

Table 8 (continued)

ORGAN/TISSUE NAME AND TUMOR NAME		MOR TIME PES STRATA	ROW NO.	2xC CONTINGENCY	EXACT ASYMP ASYMP PROB PROB PROB /CONT CORR
					=P(STAT .GE. OBSERVED)
		FA 88	2	31 34 29 23	
		FA 90	1	1 1 0 1	
		FA 90	2	28 32 28 21	
		FA 91	1	0 1 0 0	
		FA 91	2	28 31 28 20	
		FA 92	1	1 0 0 0	
		FA 92	2	26 31 28 20	
		FA 93	1	1 1 1 0	
		FA 93	2	25 30 26 20	
		FA 94	1	1 1 0 0	
		FA 94	2	24 28 26 20	
		FA 95	1	0 0 1 0	
		FA 95	2	24 28 25 20	
•		FA 96	1	0 0 2 1	
		FA 96	2	24 28 23 19	
		FA 97	1	0 0 0 1	
		FA 97	2	24 27 22 18	
		FA 98	1	1 0 0 0	*
		FA 98	2	23 27 22 18	
		FA 99	1	0 0 1 0	
		FA 99	2	23 26 20 18	
		FA 100	1	1 0 0 0	
		FA 100	2	22 26 20 18	
		FA 101	1	1 0 0 1	
		FA 101	2	19 26 19 17	
		FA 102	1	3 0 0 0	
		FA 102	2	16 26 16 16	×
		FA 103	1	0 0 1 1	
		FA 103	2	15 26 13 15	
Spontaneous tumor pct	: 73% in ctrl	Total	-	39 35 40 40	
PITUITARY GLAND	(PG)	IN 105-10	5 1	0 2 0 0	0.419 0.329 0.339
P-DIST: CARCINOMA	•	IN 105-10		15 22 13 14	21113 21320 21330
	(55.	FA 73	1	0 0 0 1	
		FA 73	2	44 46 42 38	
		FA 89	1	0 0 1 0	
-		FA 89	2	29 34 28 22	
		FA 102	1	0 0 1 0	
		FA 102	2	19 26 15 16	
Spontaneous tumor pci	:: 2% in ctrl	Total	-	0 2 2 1	
PARATHYROID GLS.	(PT)	IN 0-52	1	0 1 0 0	0.908 0.881 0.884

ORGAN/TISSUE NAME AND TUMOR NAME		TIME ROW STRATA NO.	2xC CONTINGENCYTABLES	EXACT ASYMP ASYMP PROB PROB PROB /CONT CORR =P(STAT .GE. OBSERVED)
TISSUE MISSING	11 11 11	1 0-52 2 1 53-78 1 1 53-78 2 1 79-91 1 1 79-91 2	2 -1 1 1 2 0 1 2 5 6 9 15 0 1 1 1 13 9 8 8	
Spontaneous tumor pct: 13	IP IP IP	1 92-104 1 1 92-104 2 1 105-105 1 1 105-105 2	2 0 1 1 8 8 13 4 2 5 1 0 11 14 11 14 6 7 4 4	
PARATHYROID GLS. ADENOMA	(PT) II	N 92-104 1	0 1 0 0	1.000 0.821 0.838
Spontaneous tumor pct: <=	: 1% in ctrl.	· Total -	0 1 0 0	
LOW COLON/RECTUM TISSUE MISSING	(000) II	N 53-78 1 N 53-78 2 N 92-104 1 N 92-104 2	0 0 0 1 9 6 11 17 0 1 0 0 12 6 15 6	0.591 0.409 0.427
Spontaneous tumor pct: <=	: 1% in ctrl.	- Total -	0 1 0 1	
CERVICAL SC TISSUE MISSING Spontaneous tumor pct: 2%	(000) II	N 79-91 1 N 79-91 2 - Total -	0 2 0 0 13 7 10 10 0 2 0 0	1.000 0.892 0.900
SALIVARY GLANDS TISSUE MISSING	(000) I	N 79-91 1 N 79-91 2 N 105-105 1	0. 0 1 0 13 11 8 10 0 1 0 0	0.673 0.603 0.620
Spontaneous tumor pct: <=		N 105-105 2 - Total -	15 22 13 14 0 1 1 0	
SKIN TISSUE MISSING Spontaneous tumor pct: <=	(000) I	N 105-105 1 N 105-105 2 - Total -	1 0 0 0 13 24 13 14 1 0 0 0	1.000 0.780 0.798
SKIN FIBROSARCOMA	(381) I I I	N 79-91 1 N 79-91 2	9 5 10 19 2 0 0 0 11 11 10 10	0.932 0.881 0.886
Spontaneous tumor pct: 39	F	A 98 2	23 28 21 18	
SKIN FIBROMA	(385) I I I	N 53-78 1 N 53-78 2 N 92-104 1 N 92-104 2 N 105-105 1	0 0 0 1 9 6 11 18 0 0 1 0 12 8 14 6 0 1 1 0	0.372 0.268 0.278
Spontaneous tumor pct: <=			14 23 12 14 0 1 2 1	

ORGAN/TISSUE NAME	(ORG#) TUMOF	R TIME ROW	2xC CONTINGENCY	EXACT ASYMP ASYMP PROB
AND TUMOR NAME	(TMR#) TYPES	STRATA NO.	TABLES	- PROB PROB /CONT CORR
				=P(STAT .GE. OBSERVED)
				·
SKIN	(SK) I	105-105 1	0 1 0 0	1.000 0.780 0.798
LIPOSARCOMA	(669) II	105-105 2	14 23 13 14	
Spontaneous tumor pct: <=	= 1% in ctrl	Total -	0 1 0 0	
•				
IMPLANT ST-COMB	(SK3) II	1 53-78 1	0 0 1 4	0.495 0.446 0.451
ZT: CAPSULE-IMPLANT SITE	(050) I!	1 53-78 2	9 6 9 11	
	II	N 79-91 1	2 1 0 1	
	II	1 79-91 2	9 9 10 8	
	II	1 92-104 1	1 0 0 0	
	II	92-104 2	10 8 15 6	
	II	1 105-105 1	3 8 8 2	
		1 105-105 2	9 8 -3 10	
Spontaneous tumor pct: 15	5% in ctrl.	· Total -	6 9 9 7	
IMPLANT ST-COMB		N 92-104 1	0 1 0 0	0.849 0.762 0.774
FIBROSARCOMA	(650) II	N 92-104 2	11 7 15 6	
	F/	A 84 1	0 0 1 0	
	F	A 84 2	32 32 26 22	en e
	F	A 89 1	0 1 0 0	•
	F	A 89 2	25 26 21 20	•
Spontaneous tumor pct: 29	k in ctrl.	· Total -	0 2 1 0	
				•
STOMACH	(ST) II	N 53-78 1	0 0 0 1	0.242 0.127 0.137
TISSUE MISSING	(000) II	N 53-78 2	9 6 11 17	
	I	N 92-104 1	0 0 1 0	
	II	N 92-104 2	12 8 13 6	
Spontaneous tumor pct: <=	= 1% in ctrl.	- Total -	0 0 1 1	
THYROID GLAND	•	N 53-78 1	0 0 0 1	0.085 0.026 0.029
TISSUE MISSING	(000) I	N 53-78 2	9 6 11 17	
		N 79-91 1	0 0 0 1	
		N 79-91 2	13 11 10 8	
Spontaneous tumor pct: <=	= 1% in ctrl.	- Total -	0 0 0 2	
THYROID GLAND	• •	N 53-78 1	0 0 2 1	0.059 0.039 0.041
C-CELL ADENOMA		N 53-78 2	9 6 9 17	•
•		N 79-91 1	1 0 1 0	
		N 79-91 2	12 11 9 9	
		N 105-105 1	2 1 3 4	
		N 105-105 2	13 23 10 10	
Spontaneous tumor pct: 49	t in ctrl.	- Total -	3 1 6 5	
T111/2013 01 41/2				0.054.0.504.0.004
THYROID GLAND	•	N 105-105 1	0 1 1 0	0.654 0.584 0.601
C-CELL CARCINOMA	(254) I		15 23 12 14	
Spontaneous tumor pct: <=	= 1% in ctri.	- IOTAL -	0 1 1 0	
TUVDOTO CLAND	· /TU \ •	N 00 104 4	0 0 1 0	0.589 0.470 0.485
	•	N 92-104 1	0 0 1 0	0.565 0.470 0.465
FOLLIC: ADENOMA		N 92-104 2 N 105-105 1	12 8 14 6 1 0 1 0	
		N 105-105 1 N 105-105 2		
Spontaneous tumor pct: <=			14 24 12 14 1 0 2 0	
Spontaneous tumor pet: <	- 12 TH CO.T.	- IULAI -	1 0 2 0	

ORGAN/TISSUE NAME AND TUMOR NAME	(ORG#) (TMR#)	TUMOR TIME TYPES STRAT	ROW A NO.	2xC CONTINGENCY	EXACT ASYMP ASYMP PROB PROB PROB /CONT CORR =P(STAT .GE. OBSERVED)
THYMUS	(TM) IN 0-52	1	0 1 0 0	0.564 0.521 0.525
TISSUE MISSING	(000) IN 0-52	2	2 -1 1 1	0.304 0.321 0.323
110002 #1202110	(000	IN 53-78		1 2 3 6	
		IN 53-78		7 2 5 7	
•		IN 79-91		4 3 5 4	
		IN 79-91		5 5 0 2	
		IN 92-10		7 2 4 2	
		IN 92-10	4 2	-2 4 7 2	
		IN 105-1	05 1	1 6 0 1	
		IN 105-1	05 2	13 12 13 12	
Spontaneous tumor pct: 27	% in c	trl Total		13 14 12 13	
TRACHEA .	(TR) IN 92-10	1 1	0 0 1 0	0.512 0.317 0.342
SARCOMA (NOS)	(742) IN 92-10	4 2	12 8 14 6	
Spontaneous tumor pct: <=	1% in c	trl Total	-	0 0 1 0	
URINARY BLADDER	(UB) IN 53-78	3 1	0 0 0 2	0.326 0.203 0.213
TISSUE MISSING	(000) IN 53-78	3 2	9 6 11 15	•
		IN 79-91	1	1 0 0 0	,
		IN 79-91	2	11 11 10 10	
Spontaneous tumor pct: <=	1% in 0	trl Total	L -	1 0 0 2	
URETER	(UR) IN 0-52	1	1 0 0 0	1.000 0.817 0.832
TISSUE MISSING	(000) IN 0-52	2	0 1 1 1	
Spontaneous tumor pct: <=	1% in 0	ctrl Total	١ .	1 0 0 0	
UTERUS	(UT) IN 79-91		1 0 0 0	1.000 0.797 0.814
ENDOMET: CARCINOMA	(469) IN 79-91		12 11 10 10	
Spontaneous tumor pct: <=	1% in (ctrl Total	L -	1 0 0 0	
UTERUS	(UT) IN 105-		0 2 0 0	1.000 0.862 0.871
ENDOMETRIAL STROMAL POLYP) IN 105-		15 22 13 14	
Spontaneous tumor pct: 2%	in (ctrl Tota	١ ٠	0 2 0 0	
VAGINA	(VA) IN 53-78	3 1	1 1 0 1	0.943 0.896 0.902
TISSUE MISSING -	(000) IN 53-7	3 2	7 4 11 17	
		IN 92-10	04 1	1 0 0 0	
		IN 92-10	04 2	10 8 15 6	
Spontaneous tumor pct: 3%	in (ctrl Tota	1 -	2 1 0 1	